



SEQUENCE LISTING

<110> Frohberg, Claus
Koetting, Oliver
Ritte, Gerhard
Steup, Martin

<120> Plants with increased activity of a starch phosphorylating enzyme

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<140> 10/591,428

<141> 2006-09-01

<150> EP04090086.2

<151> 2004-03-05

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<151> 2004-03-29

<150> US 60/549,945

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Thr Leu Val Glu Phe Lys Phe Val Ile Phe Leu Val Gly Gly Lys Asp
130 135 140

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Lys Ile Trp Glu Asp Gly Asn Asn Arg Val Val Glu Leu Pro Lys Asp
145 150 155

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gaa Glu 175	ctt Leu	tta Leu	gga Gly	aca Thr	cca Pro	aag Lys 180	ttt Phe	gag Glu	ttg Leu	gtc Val	gga Gly 185	gaa Glu	gct Ala	gaa Glu	aag Lys	579
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gca Ala 270	tcc Ser	agg Arg	aac Asn	tgg Trp	tgg Trp 275	cgg Arg	aag Lys	tta Leu	gag Glu	gtt Val 280	gtt Val	cgc Arg	ggg Gly	ata Ile	ttg Leu 285	867
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gct Ala	cac His	cgg Arg	aat Asn 385	gac Asp	atc Ile	cca Pro	cat His	gat Asp 390	ctc Leu	aag Lys	caa Gln	gaa Glu	atc Ile 395	aag Lys	cat His	1203
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ctt Leu 655	tct Ser 655	ata Ile 655	ttc Phe 655	cct Pro 655	gaa Glu 660	aaa Lys 660	gta Val 660	atg Met 660	gtt Val 660	att Ile 660	ggg Gly 665	aaa Lys 665	gcc Ala 665	ctt Leu 665	gga Gly 665	2019

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Gly Thr Pro Lys Phe Glu Leu Val Gly Glu Ala Glu Lys Asn Thr Gly
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 Ile Ser Val Val Glu Asn Gly Asp Pro Ala Pro Glu Ala Glu Ser Ser
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 370 375 380
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 405 410 415
 Val Met Leu Ala Arg Ile Thr Lys Thr Pro Gly Glu Tyr Ser Glu Thr
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Phe Val Glu Gln Phe Thr Ile Phe Tyr Ser Glu Leu Lys Asp Phe Phe
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Asn Glu Ser Gly Leu Glu Val Leu Ser Ser Phe Val Glu Thr Lys Arg
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Ser Leu Asp Gln Val Asp His Ala Glu Asp Leu Asp Lys Asn Asp Thr
 485 490 495

Ile Gln Ile Leu Met Thr Thr Leu Gln Ser Leu Ser Ser Leu Arg Ser
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Val Leu Met Lys Gly Leu Glu Ser Gly Leu Arg Asn Asp Ala Pro Asp
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Asn Ala Ile Ala Met Arg Gln Lys Trp Arg Leu Cys Glu Ile Ser Leu
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Glu Asp Tyr Ser Phe Val Leu Leu Ser Arg Phe Ile Asn Thr Leu Glu
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Arg Ala Arg Arg Leu Thr Glu Glu Tyr Ser Glu Ala Leu Leu Ser Ile
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Phe Gln Val Ser Lys Leu Cys Thr Val Leu Gln Lys Ala Ile Arg Glu
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Val Leu Gly Ser Thr Gly Trp Asp Val Leu Val Pro Gly Val Ala His
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Gly Thr Leu Met Arg Val Glu Arg Ile Leu Pro Gly Ser Leu Pro Ser
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Ser Val Lys Glu Pro Val Val Leu Ile Val Asp Lys Ala Asp Gly Asp
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Glu Glu Val Lys Ala Ala Gly Asp Asn Ile Val Gly Val Ile Leu Leu
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Gln Glu Leu Pro His Leu Ser His Leu Gly Val Arg Ala Arg Gln Glu
 770 775 780

Asn Val Val Phe Val Thr Cys Glu Tyr Asp Asp Thr Val Thr Asp Val
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Tyr Leu Leu Glu Gly Lys Tyr Ile Arg Leu Glu Ala Ser Ser Ile Asn
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Val Asn Leu Ser Ile Val Ser Glu Lys Asn Asp Asn Ala Val Ser Thr
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Glu Pro Asn Ser Thr Gly Asn Pro Phe Gln Gln Lys Leu Gln Asn Glu
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Phe Ser Leu Pro Ser Asp Ile Glu Met Pro Leu Gln Met Ser Lys Gln
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Lys Ser Lys Ser Gly Val Asn Gly Ser Phe Ala Ala Leu Glu Leu Ser
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Glu Ala Ser Val Glu Ser Ala Gly Ala Lys Ala Ala Ala Cys Arg Thr
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Val Pro Ala Ala Phe Arg Val Pro Ser Gly Ala Val Ile Pro Phe Gly
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 980 985 990
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